(19) World Intellectual Property Organization International Bureau



PCT

(43) International Publication Date 4 August 2005 (04.08.2005)

(10) International Publication Number WO 2005/069743 A3

(51) International Patent Classification⁷:

A61B 17/06

(21) International Application Number:

PCT/IN2005/000027

(22) International Filing Date: 20 January 2005 (20.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 53/CHE/2004

23 January 2004 (23.01.2004) IN

(71) Applicant and

(72) Inventor: MAHADEVAN, Chalam [IN/IN]; C3-0006 South City, off Bannerghata Road, Banglore, Karnataka 560 076 (IN).

(74) Agent: UPADHYAY, Swati; Amarchand & Mangaldas & Suresh A. Shroff & Co., Advocates & Solicitors, Amarchand Towers, 216, Okhla Industrial Estate, Phase 3, New Delhi 110 020 (IN).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

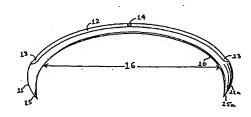
Published:

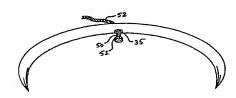
with international search report

(88) Date of publication of the international search report: 23 March 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SUTURE NEEDLE AND SUTURE ASSEMBLY





(57) Abstract: The present invention provides a suture needle and suture assembly for use in a surgery. The suture needle comprises a curvilinear, arched shaft (16) tapering at both ends (11, 11a) to form tips (15, 15a) for impalement. A groove (12) for housing the suture is provided on the needle approximately equally remotely located from the tips (15, 15a) and running along its length either on the inner or the outer surfaces. The needle has a hole (14) through the center of the groove (12) and extending to the inner and outer surfaces of the shaft (16). A fastening means such as a crimp or plug (51) secures the suture (52) to the suture needle. The suture (52) comprises a regular portion, and a narrower section housed within the groove. The hole (14) comprises two coaxially aligned hollow cylindrical cavities with differing diameters. Fastening means is of diameter equal to the diameter of the cylindrical cavity with larger diameter so as to enable resilient fastening.

WO 2005/069743 A3 IIII